



रेल डिब्बा कारखाना, कपूरथला
Rail Coach Factory , Kapurthala

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ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	6032	DISPATCH DATE				21.09.16
2.	Railway	WR	Type	LS3	Coach No.	16401	
3.	Booked to	SSE/C&W/MUMBAI					
4.	Tare Weight of Coach	40.665 T					
5.	Carrying Capacity	Seating	100	Sleeping	NIL	Luggage	NIL
6.	Shell Details: (LW90023 alt 'a', LE90009 alt 'nil', LD9009 alt 'b')						
6.1	Leading Dimensions:						
i)	Maximum length over Body	23700+10/-0 mm					
ii)	Maximum width over Body	3240-8/+0 mm, 3050 mm (LWSCZDAC)					
iii)	Max. Height From Rail Level	4250 (LWACCN), 4039 (LWACCW, LS, LWSCN), 4366 (LWSCZDAC)					
iv)	Buffer/CBC Height	Specified : 1105 +0 /-15 mm		1105	1103		
v)	Buffer/CBC (Make)	FAIVELEY		Fiba Device	NA		
7.	Air Brake Testing:		Description		Specified	Observed	
7.1	Full Brake Application		Reduce pressure of BP from 5.0 to 3.4 kg/cm ²		6 –10 sec	6 Sec	
			Max Pressure in BC		3.00 ± 0.15 Kg/cm ²	3.00	
			All Brake are applied		OK	OK	
7.2	Insensitivity		Exhaust BP @ 0.3 kg/cm ² /min		No brake application	OK	
7.3	Sensitivity		Exhaust BP @ 0.1 kg/cm ² /Sec, After 02 Sec.		Brake must apply	OK	
8.	PAINTING DEATAILS:		TYPE OF PAINT	MAKE	AVERAGE GLOSS VALUE		
8.1	PAINT		PU PAINT	GS	87/86		
8.2	APPLICATION OF PCN-123		SATISFACTORY				
8.3	INSUALTION		SATISFACTORY				
9.	Traceability of Furnishing Items:			Make			
I	BRAKE EQUIPMENT			FAVELLY			
ii	SEAT & BERTH			OVPL			
lii	BODY SIDE DOORS			SUKATA			
lv	WATER TANKS			RUBICON,RAIL FAB			
v	FLOOR BOARD			TWPL			
VI	PVC			RESPONSIVE			
Vii	LP SHEET			PL			
10.							
10.1	Modification / Trail (if any):				NIL		
10.2	Deviations if any:				NIL		



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11.	Bogie Details:		Shell No.		Railway		Type		Coach No.		Dispatch Date	
			6032		WR		LS3		16401		22-08-2016	
11.1	Wheel & Axle Details:		PP Side						NPP Side			
	i.	Bogie No.	166731						166732			
	ii.	Frame No.	FIAT-5024						FIAT-5039			
	iii.	Bolster No.	6059-VT						6086-P			
	iv.	Axle No.	N-6375			N-0698			K-2998		N-0997	
	v.	Wheel Dia.	917.00	917.00	917.00	917.00	916.00	916.00	916.50	916.00		
	vi.	Wheel Disc No.	07889-6QL2	02282-6QG7	05096-6QM3	06034-6QK8	02290-6QG7	06033-6QK8	06035-6QK8	02289-6QG7		
	vii.	R.B. Nos.	07058	03605	03419	03450	03724	02612	01711	01899		
	viii.	R.B. Make	TIMKEN			TIMKEN			TIMKEN		TIMKEN	
	ix.	RB Type	UIC CARTRIDGE TAPER ROLLER BEARING									
11.2	Secondary suspension load deflection Values:											
Description		Secondary 1		Secondary 2		Secondary 1		Secondary 2				
		Outer	Inner	Outer	Inner	Outer	Inner	Outer	Inner			
i.	Make & nos.	RSK-16-4-014	RSK-16-4-640	RSK-16-4-113	RSK-16-4-294	RSK-16-4-117	RSK-16-4-862	RSK-16-4-031	RSK-16-4-664			
ii.	Ht. at test load	516	472	514	470	515	471	516	471			
iii.	Align .deviation	6	6	6	9	4	5	4	8			
11.3	Items traceability:											
	Sno.	Item			PP Side Bogie			NPP side Bogie			Make	
	i.	Primary Outer Spring			RSK-15-06			RSK-15-06			RSK	
	ii.	Primary inner Spring			RSK-16-2			RSK-16-2			RSK	
	iii.	Primary Damper			1744,1580,1711,1757			1763,1694,1805,1675			KNORR	
	iv.	Secondary damper			05102,269			3,46			GEREP	
	v.	Lateral Damper			3648			3314			KONI	
	vi.	Yaw Damper									NIL	
	vii.	Brake cylinder & Caliper			G16202/600,G16301/600 G16283/600,G16203/600			G16237/600,G16264/600 G16249/600,G16282/600			FTI	
	viii.	Brake Disc									FTI	
	ix.	Ball joint Control arm									MGN	
	x.	Lateral Bump stop									MGN	
	xi.	Traction center make									SARITA	
	xii.	Traction lever make									SARITA	
	xiii.	Ball joint traction lever									GMT,MGN	
	xiv.	Traction centre elastic									GMT	
	xv.	Secondary rubber pad									TECSPACK	
	xvi.	Rubber spring									GMT	
	xvii.	Anti roll bar make									EMSON	
	xviii.	Ball joint roll link									SARITA	
	xix.	Fork make									EMSON	
11.4	i.	Modification / Trial (if any):						NIL				
	ii.	Deviations (if any):						NIL				

LS3-6032



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Form No. : QMF 9454; Version: 1

1.	SHELL No.	6033	DISPATCH DATE				05.10.16
2.	Railway	WR	Type	LS3	Coach No.	16402	
3.	Booked to	SSE/C&W/MUMBAI					
4.	Tare Weight of Coach	40.665 T					
5.	Carrying Capacity	Seating	100	Sleeping	NIL	Luggage	NIL
6.	Shell Details: (LW90023 alt 'a', LE90009 alt 'nil', LD9009 alt 'b')						
	6.1	Leading Dimensions:					
	i)	Maximum length over Body	23700+10/-0 mm				
	ii)	Maximum width over Body	3240-8/+0 mm, 3050 mm (LWSCZDAC)				
	iii)	Max. Height From Rail Level	4250 (LWACCN), 4039 (LWACCW, LS, LWSCN), 4366 (LWSCZDAC)				
	iv)	Buffer/CBC Height	Specified : 1105 +0 /-15 mm	1105	1102		
	v)	Buffer/CBC (Make)	FAIVELEY	Fiba Device	NA		
7.	Air Brake Testing:	Description		Specified	Observed		
	7.1	Full Brake Application	Reduce pressure of BP from 5.0 to 3.4 kg/cm ²	6 –10 sec	6 Sec		
			Max Pressure in BC	3.00 ± 0.15 Kg/cm ²	3.00		
			All Brake are applied	OK	OK		
	7.2	Insensitivity	Exhaust BP @ 0.3 kg/cm ² /min	No brake application	OK		
	7.3	Sensitivity	Exhaust BP @ 0.1 kg/cm ² /Sec, After 02 Sec.	Brake must apply	OK		
8.	PAINTING DEATAILS:		TYPE OF PAINT	MAKE	AVERAGE GLOSS VALUE		
	8.1	PAINT	PU PAINT	GS	85/86		
	8.2	APPLICATION OF PCN-123	SATISFACTORY				
	8.3	INSUALTION	SATISFACTORY				
9.	Traceability of Furnishing Items:			Make			
	I	BRAKE EQUIPMENT		FAVELLY			
	ii	SEAT & BERTH		OVPL			
	iii	BODY SIDE DOORS		JBM			
	iv	WATER TANKS		RUBICON,RAIL FAB			
	v	FLOOR BOARD		TWPL			
	VI	PVC		RESPONSIVE			
		LAVOTARY DOOR		KALSI			
	Vii	LP SHEET		PL			
10.							
	10.1	Modification / Trail (if any):			NIL		
	10.2	Deviations if any:			NIL		



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11.	Bogie Details:		Shell No.		Railway		Type		Coach No.		Dispatch Date	
			6033		WR		LGS		16402/C		20-08-2016	
11.1	Wheel & Axle Details:		PP Side						NPP Side			
	i.	Bogie No.	166727						166728			
	ii.	Frame No.	FIAT-5022						FIAT-5040			
	iii.	Bolster No.	6040-VT						6084-VT			
	iv.	Axle No.	N-6389			N-6200			N-5697		K-6142	
	v.	Wheel Dia.	917.00	917.00	916.00	916.00	916.00	916.00	916.00	916.00	916.00	
	vi.	Wheel Disc No.	04343-6QL3	04342-6QL3	08280-6QM4	08281-6QM4	07894-6QL2	08285-6QM4	07893-6QL2	07890-6QL2		
	vii.	R.B. Nos.	02385	01973	02509	02318	02504	02485	01988	03832		
	viii.	R.B. Make	TIMKEN			TIMKEN			TIMKEN		TIMKEN	
	ix.	RB Type	UIC CARTRIDGE TAPER ROLLER BEARING									
11.2	Secondary suspension load deflection Values:											
Description		Secondary 1		Secondary 2		Secondary 1		Secondary 2				
		Outer	Inner	Outer	Inner	Outer	Inner	Outer	Inner			
i.	Make & nos.	RSK-16-4-056	RSK-16-4-653	RSK-16-4-049	RSK-16-4-660	RSK-16-4-045	RSK-16-4-048	RSK-16-4-016	RSK-16-4-803			
ii.	Ht. at test load	513	472	514	472	513	470	515	471			
iii.	Align .deviation	6	3	6	4	7	5	8	9			
11.3	Items traceability:											
	Sno.	Item			PP Side Bogie			NPP side Bogie			Make	
	i.	Primary Outer Spring			RSK-15-6			RSK-15-6			RSK	
	ii.	Primary inner Spring			RSK-16-2			RSK-16-2			RSK	
	iii.	Primary Damper			1802,1585,1567,1493			1593,1706,1638,1616			KNORR	
	iv.	Secondary damper			103,208			237,232			GEREP	
	v.	Lateral Damper			3678			3360			KONI	
	vi.	Yaw Damper									NIL	
	vii.	Brake cylinder & Caliper			G16152/600,G18048/600 G16015/600,G16151/600			G16127/600,G16049/600 G16149/600,G16050/600			FTI	
	viii.	Brake Disc									FTI	
	ix.	Ball joint Control arm									MGN	
	x.	Lateral Bump stop									MGN	
	xi.	Traction center make									SARITA	
	xii.	Traction lever make									SARITA	
	xiii.	Ball joint traction lever									MGN	
	xiv.	Traction centre elastic									GMT	
	xv.	Secondary rubber pad									PRAG	
	xvi.	Rubber spring									GMT	
	xvii.	Anti roll bar make									EMSON	
	xviii.	Ball joint roll link									SARITA	
	xix.	Fork make									SARITA	
11.4	i.	Modification / Trial (if any):						NIL				
	ii.	Deviations (if any):						NIL				



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Form No. : QMF 9454; Version: 1

1.	SHELL No.	6034	DISPATCH DATE				01.10.16
2.	Railway	WR	Type	LS3	Coach No.	16405	
3.	Booked to	SSE/C&W/MUMBAI					
4.	Tare Weight of Coach	40.665 T					
5.	Carrying Capacity	Seating	100	Sleeping	NIL	Luggage	NIL
6.	Shell Details: (LW90023 alt 'a', LE90009 alt 'nil', LD9009 alt 'b')						
	6.1	Leading Dimensions:					
	i)	Maximum length over Body	23700+10/-0 mm				
	ii)	Maximum width over Body	3240-8/+0 mm, 3050 mm (LWSCZDAC)				
	iii)	Max. Height From Rail Level	4250 (LWACCN), 4039 (LWACCW, LS, LWSCN), 4366 (LWSCZDAC)				
	iv)	Buffer/CBC Height	Specified : 1105 +0 /-15 mm	1104	1105		
	v)	Buffer/CBC (Make)	FAIVELEY	Fiba Device	NA		
7.	Air Brake Testing:		Description	Specified	Observed		
	7.1	Full Brake Application	Reduce pressure of BP from 5.0 to 3.4 kg/cm ²	6 -10 sec	6 Sec		
			Max Pressure in BC	3.00 ± 0.15 Kg/cm ²	3.00		
			All Brake are applied	OK	OK		
	7.2	Insensitivity	Exhaust BP @ 0.3 kg/cm ² /min	No brake application	OK		
	7.3	Sensitivity	Exhaust BP @ 0.1 kg/cm ² /Sec, After 02 Sec.	Brake must apply	OK		
8.	PAINTING DEATAILS:		TYPE OF PAINT	MAKE	AVERAGE GLOSS VALUE		
	8.1	PAINT	PU PAINT	GS	85/86		
	8.2	APPLICATION OF PCN-123	SATISFACTORY				
	8.3	INSUALTION	SATISFACTORY				
9.	Traceability of Furnishing Items:		Make				
	I	BRAKE EQUIPMENT	FAVELLY				
	li	SEAT & BERTH	OVPL				
	lii	BODY SIDE DOORS	JBM				
	lv	WATER TANKS	RUBICON,RAIL FAB				
	v	FLOOR BOARD	TWPL				
	VI	PVC	RESPONSIVE				
		LAVOTARY DOOR	KALSI				
	Vii	LP SHEET	-----				
10.	Modification / Trail (if any):					NIL	
	10.2	Deviations if any:				NIL	



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11.	Bogie Details:		Shell No.		Railway		Type		Coach No.		Dispatch Date	
			6034		WR		LGS		16405		17-08-2016	
11.1	Wheel & Axle Details:		PP Side						NPP Side			
	i.	Bogie No.	166708						166712			
	ii.	Frame No.	FIAT-5052						FIAT-5087			
	iii.	Bolster No.	6015-VT						6067-VT			
	iv.	Axle No.	K-3442			N-5720			N-5856		N-0671	
	v.	Wheel Dia.	917.00	917.00	917.00	917.00	916.00	916.00	916.00	916.00	916.00	916.00
	vi.	Wheel Disc No.	05057-6QH3	05056-6QH3	01058-6QG5	04455-6QL3	03970-6QH0	03834-6QJ3	03832-6QJ3	05844-6QL9	05844-6QL9	05844-6QL9
	vii.	R.B. Nos.	02737	02312	01243	03826	03742	02137	03713	01635	01635	01635
	viii.	R.B. Make	TIMKEN			TIMKEN			TIMKEN		TIMKEN	
	ix.	RB Type	UIC CARTRIDGE TAPER ROLLER BEARING									
11.2	Secondary suspension load deflection Values:											
Description		Secondary 1		Secondary 2		Secondary 1		Secondary 2				
		Outer	Inner	Outer	Inner	Outer	Inner	Outer	Inner			
i.	Make & nos.	RSK-16-4-652	GBD-16-6-047	RSK-16-4-735	GBD-16-6-36	RSK-16-4-028	FSK-16-7-16	RSK-16-4-253	FSK-16-7-07			
ii.	Ht. at test load	515	472	516	471	516	467.50	515	467.50			
iii.	Align .deviation	4	5	6	9	4	10	2	8			
11.3	Items traceability:											
	Sno.	Item			PP Side Bogie			NPP side Bogie			Make	
	i.	Primary Outer Spring			RSK-15-10			RSK-15-10			RSK	
	ii.	Primary inner Spring			RSK-16-2			RSK-16-2			RSK	
	iii.	Primary Damper			1527,1537,1541,1593			1692,1475,1485,1644			KNORR	
	iv.	Secondary damper			068,687			088,051			GEREP	
	v.	Lateral Damper			0225			0168			KNORR	
	vi.	Yaw Damper									NIL	
	vii.	Brake cylinder & Caliper			F16199/600,F16227/600 F16200/600,F16226/600			F16109/600,F16069/600 F16112/600,F16274/600			FTI	
	viii.	Brake Disc									KBI,FTI	
	ix.	Ball joint Control arm									MGN	
	x.	Lateral Bump stop									MGN	
	xi.	Traction center make									SARITA	
	xii.	Traction lever make									SARITA	
	xiii.	Ball joint traction lever									MGN	
	xiv.	Traction centre elastic									GMT	
	xv.	Secondary rubber pad									PRAG	
	xvi.	Rubber spring									GMT	
	xvii.	Anti roll bar make									EMSON	
	xviii.	Ball joint roll link									SARITA	
	xix.	Fork make									SARITA	
11.4	i.	Modification / Trial (if any):						NIL				
	ii.	Deviations (if any):						NIL				



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Form No. : QMF 9454; Version: 1

1.	SHELL No.	6035	DISPATCH DATE				06.10.16
2.	Railway	WR	Type	LS3	Coach No.	16403	
3.	Booked to	SSE/C&W/MUMBAI					
4.	Tare Weight of Coach	40.665 T					
5.	Carrying Capacity	Seating	100	Sleeping	NIL	Luggage	NIL
6.	Shell Details: (LW90023 alt 'a', LE90009 alt 'nil', LD9009 alt 'b')						
	6.1	Leading Dimensions:					
	i)	Maximum length over Body	23700+10/-0 mm				
	ii)	Maximum width over Body	3240-8/+0 mm, 3050 mm (LWSCZDAC)				
	iii)	Max. Height From Rail Level	4250 (LWACCN), 4039 (LWACCW, LS, LWSCN), 4366 (LWSCZDAC)				
	iv)	Buffer/CBC Height	Specified : 1105 +0 /-15 mm	1105	1105		
	v)	Buffer/CBC (Make)	FAIVELEY	Fiba Device	NA		
7.	Air Brake Testing:		Description	Specified	Observed		
	7.1	Full Brake Application	Reduce pressure of BP from 5.0 to 3.4 kg/cm ²	6 –10 sec	6 Sec		
			Max Pressure in BC	3.00 ± 0.15 Kg/cm ²	3.00		
			All Brake are applied	OK	OK		
	7.2	Insensitivity	Exhaust BP @ 0.3 kg/cm ² /min	No brake application	OK		
	7.3	Sensitivity	Exhaust BP @ 0.1 kg/cm ² /Sec, After 02 Sec.	Brake must apply	OK		
8.	PAINTING DEATAILS:		TYPE OF PAINT	MAKE	AVERAGE GLOSS VALUE		
	8.1	PAINT	PU PAINT	GS	85/86		
	8.2	APPLICATION OF PCN-123	SATISFACTORY				
	8.3	INSUALTION	SATISFACTORY				
9.	Traceability of Furnishing Items:			Make			
	I	BRAKE EQUIPMENT			KBI		
	li	SEAT & BERTH			ARR KAYEE		
	lii	BODY SIDE DOORS			JBM,SUKATA		
	lv	WATER TANKS			RAIL FAB		
	v	FLOOR BOARD			TWPL		
	VI	PVC			RESPONSIVE		
		LAVOTARY DOOR			KALSI		
	Vii	LP SHEET			PL		
10.							
	10.1	Modification / Trail (if any):				NIL	
	10.2	Deviations if any:				NIL	



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11.	Bogie Details:		Shell No.		Railway		Type		Coach No.		Dispatch Date	
			6035		WR		LGS		16403		17-09-2016	
11.1	Wheel & Axle Details:		PP Side					NPP Side				
	i.	Bogie No.	166806					166807				
	ii.	Frame No.	FIAT-BGB-20					FIAT-5158				
	iii.	Bolster No.	6161-GT					5979-VT				
	iv.	Axle No.	K-2855		N-0586			P-9295		P-4647		
	v.	Wheel Dia.	917.00	917.00	917.00	917.00	916.50	917.00	917.00	917.00	917.00	917.00
	vi.	Wheel Disc No.	04714-6QG3	00023-6QH4	00482-6MG8	00047-6QH5	03793-6QJ3	06790-6QH7	04452-6QL3	08417-6QH4	04452-6QL3	08417-6QH4
	vii.	R.B. Nos.	02359	01634	02541	01826	03219	01215	02190	02027	02190	02027
	viii.	R.B. Make	TIMKEN		TIMKEN			TIMKEN		TIMKEN		
	ix.	RB Type	UIC CARTRIDGE TAPER ROLLER BEARING									
11.2	Secondary suspension load deflection Values:											
Description		Secondary 1		Secondary 2		Secondary 1		Secondary 2				
		Outer	Inner	Outer	Inner	Outer	Inner	Outer	Inner			
i.	Make & nos.	GBD-16-7-6	RSK-16-4-826	GBD-16-7-22	RSK-16-4-795	GBD-16-7-050	RSK-16-4-637	GBD-16-7-025	RSK-16-4-811			
ii.	Ht. at test load	515	471	516	471	516	472	515	472			
iii.	Align .deviation	8	6	9	9	7	12	5	10			
11.3	Items traceability:											
	Sno.	Item			PP Side Bogie			NPP side Bogie			Make	
	i.	Primary Outer Spring			RSK-15-11			RSK-15-11			RSK	
	ii.	Primary inner Spring			RSK-16-2			RSK-16-2			RSK	
	iii.	Primary Damper			3378,3255,2952,2992			3400,3396,3293,3408			KNORR	
	iv.	Secondary damper			249,155			417,050			GEREP	
	v.	Lateral Damper			006			0359			SV	
	vi.	Yaw Damper									NIL	
	vii.	Brake cylinder & Caliper			4230/691,4121/691 4105/691,4122/691			4212/691,4101/691 4209/691,4102/691			KBI	
	viii.	Brake Disc									FTI	
	ix.	Ball joint Control arm									MGN	
	x.	Lateral Bump stop									MGN	
	xi.	Traction center make									SARITA	
	xii.	Traction lever make									SARITA	
	xiii.	Ball joint traction lever									SGA,MGN	
	xiv.	Traction centre elastic									GMT	
	xv.	Secondary rubber pad									TECSPACK	
	xvi.	Rubber spring									GMT	
	xvii.	Anti roll bar make									SARITA	
	xviii.	Ball joint roll link									SARITA	
	xix.	Fork make									SARITA	
11.4	i.	Modification / Trial (if any):			NIL							
	ii.	Deviations (if any):			NIL							



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1.	SHELL No.	6040	DISPATCH DATE				06.10.16
2.	Railway	WR	Type	LS3	Coach No.	16404	
3.	Booked to	SSE/C&W/MUMBAI					
4.	Tare Weight of Coach	40.665 T					
5.	Carrying Capacity	Seating	100	Sleeping	NIL	Luggage	NIL
6.	Shell Details: (LW90023 alt 'a', LE90009 alt 'nil', LD9009 alt 'b')						
6.1	Leading Dimensions:						
i)	Maximum length over Body	23700+10/-0 mm					
ii)	Maximum width over Body	3240-8/+0 mm, 3050 mm (LWSCZDAC)					
iii)	Max. Height From Rail Level	4250 (LWACCN), 4039 (LWACCW, LS, LWSCN), 4366 (LWSCZDAC)					
iv)	Buffer/CBC Height	Specified : 1105 +0 /-15 mm		1102	1104		
v)	Buffer/CBC (Make)	FAIVELEY		Fiba Device	NA		
7.	Air Brake Testing:	Description			Specified	Observed	
7.1	Full Brake Application	Reduce pressure of BP from 5.0 to 3.4 kg/cm ²		6 –10 sec	6 Sec		
		Max Pressure in BC		3.00 ± 0.15 Kg/cm ²	3.00		
		All Brake are applied		OK	OK		
7.2	Insensitivity	Exhaust BP @ 0.3 kg/cm ² /min		No brake application	OK		
7.3	Sensitivity	Exhaust BP @ 0.1 kg/cm ² /Sec, After 02 Sec.		Brake must apply	OK		
8.	PAINTING DEATAILS:	TYPE OF PAINT	MAKE	AVERAGE GLOSS VALUE			
8.1	PAINT	PU PAINT	GS	85/85			
8.2	APPLICATION OF PCN-123	SATISFACTORY					
8.3	INSUALTION	SATISFACTORY					
9.	Traceability of Furnishing Items:				Make		
I	BRAKE EQUIPMENT				FAVELLY		
ii	SEAT & BERTH				ARR KAYEE		
lii	BODY SIDE DOORS				JBM		
lv	WATER TANKS				RAIL FAB		
v	FLOOR BOARD				TWPL		
VI	PVC				RESPONSIVE		
	LAVOTARY DOOR				KALSI		
Vii	LP SHEET				--		
10.							
10.1	Modification / Trail (if any):					NIL	
10.2	Deviations if any:					NIL	



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11.	Bogie Details:		Shell No.	Railway	Type	Coach No.	Dispatch Date			
			6040	WR	LGS	16404	22-08-2016			
11.1	Wheel & Axle Details:		PP Side				NPP Side			
	i.	Bogie No.	166735				166736			
	ii.	Frame No.	FIAT-5106				FIAT-4920			
	iii.	Bolster No.	5029-VT				6077-VT			
	iv.	Axle No.	N-1018		N-0575		N-0629		R-3457	
	v.	Wheel Dia.	917.00	917.00	917.00	917.00	917.00	917.00	917.00	917.00
	vi.	Wheel Disc No.	05314-6MG9	02895-5VJ6	02921-5VJ6	07031-6QJ4	02249-6QG7	08284-6QM4	00867-6QJ9	01453-6QK1
	vii.	R.B. Nos.	02471	01344	01366	01993	02018	03567	03716	01206
	viii.	R.B. Make	TIMKEN		TIMKEN		TIMKEN		TIMKEN	
	ix.	RB Type	UIC CARTRIDGE TAPER ROLLER BEARING							
11.2	Secondary suspension load deflection Values:									
Description		Secondary 1		Secondary 2		Secondary 1		Secondary 2		
		Outer	Inner	Outer	Inner	Outer	Inner	Outer	Inner	
i.	Make & nos.	FSK-16-7-43	RSK-16-4-805	FSK-16-7-38	RSK-16-4-615	FSK-16-7-45	RSK-16-4-286	FSK-16-7-48	RSK-16-4-669	
ii.	Ht. at test load	514	471	512	471	514	468	515	471	
iii.	Align .deviation	7	12	8	13	7	2	9	6	
11.3	Items traceability:									
	Sno.	Item	PP Side Bogie		NPP side Bogie		Make			
	i.	Primary Outer Spring	RSK-15-6		RSK-15-6		RSK			
	ii.	Primary inner Spring	RSK-16-2		RSK-16-2		RSK			
	iii.	Primary Damper	213,215,264,269		239,254,261,225		GABRIEL			
	iv.	Secondary damper	66,254		168,262		GEREP			
	v.	Lateral Damper	98		89		SV			
	vi.	Yaw Damper					NIL			
	vii.	Brake cylinder & Caliper	16304/600,16315/600 16161/600,16313/600		16250/600,16272/600 16248/600,16307/600		FTI			
	viii.	Brake Disc					FTI			
	ix.	Ball joint Control arm					MGN			
	x.	Lateral Bump stop					MGN			
	xi.	Traction center make					SARITA			
	xii.	Traction lever make					SARITA			
	xiii.	Ball joint traction lever					MGN			
	xiv.	Traction centre elastic					GMT			
	xv.	Secondary rubber pad					PRAG			
	xvi.	Rubber spring					GMT			
	xvii.	Anti roll bar make					SARITA EMSON			
	xviii.	Ball joint roll link					SARITA			
	xix.	Fork make					SARITA			
11.4	i.	Modification / Trial (if any):			NIL					
	ii.	Deviations (if any):			NIL					

LS3-6040



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ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	6037	DISPATCH DATE				07.10.16
2.	Railway	WR	Type	LS3	Coach No.	16407	
3.	Booked to	SSE/C&W/MUMBAI					
4.	Tare Weight of Coach	40.665 T					
5.	Carrying Capacity	Seating	100	Sleeping	NIL	Luggage NIL	
6.	Shell Details: (LW90023 alt 'a', LE90009 alt 'nil', LD9009 alt 'b')						
	6.1	Leading Dimensions:					
	i)	Maximum length over Body	23700+10/-0 mm				
	ii)	Maximum width over Body	3240-8/+0 mm, 3050 mm (LWSCZDAC)				
	iii)	Max. Height From Rail Level	4250 (LWACCN), 4039 (LWACCW, LS, LWSCN), 4366 (LWSCZDAC)				
	iv)	Buffer/CBC Height	Specified : 1105 +0 /-15 mm	1105	1105		
	v)	Buffer/CBC (Make)	FAIVELEY	Fiba Device	NA		
7.	Air Brake Testing:	Description		Specified	Observed		
	7.1	Full Brake Application	Reduce pressure of BP from 5.0 to 3.4 kg/cm ²	6 –10 sec	6 Sec		
			Max Pressure in BC	3.00 ± 0.15 Kg/cm ²	3.00		
			All Brake are applied	OK	OK		
	7.2	Insensitivity	Exhaust BP @ 0.3 kg/cm ² /min	No brake application	OK		
	7.3	Sensitivity	Exhaust BP @ 0.1 kg/cm ² /Sec, After 02 Sec.	Brake must apply	OK		
8.	PAINTING DEATAILS:		TYPE OF PAINT	MAKE	AVERAGE GLOSS VALUE		
	8.1	PAINT	PU PAINT	GS	85/86		
	8.2	APPLICATION OF PCN-123	SATISFACTORY				
	8.3	INSUALTION	SATISFACTORY				
9.	Traceability of Furnishing Items:		Make				
	I	BRAKE EQUIPMENT	FAVELLY				
	ii	SEAT & BERTH	MANOJ ENTERPRISE				
	lii	BODY SIDE DOORS	JBM				
	lv	WATER TANKS	RAIL FAB				
	v	FLOOR BOARD	TWPL				
	VI	PVC	RESPONSIVE				
		LAVOTARY DOOR	KALSI				
	Vii	LP SHEET	PL				
10.							
	10.1	Modification / Trail (if any):			NIL		
	10.2	Deviations if any:			NIL		



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11.	Bogie Details:		Shell No.		Railway		Type		Coach No.		Dispatch Date	
			6037		WR		LGS		16407/C		24-09-2016	
11.1	Wheel & Axle Details:		PP Side						NPP Side			
	i.	Bogie No.	166854						166855			
	ii.	Frame No.	FM-641						FIAT-5068			
	iii.	Bolster No.	6186-GT						6203-GT			
	iv.	Axle No.	R-3526			P-9194			N-1054		N-0274	
	v.	Wheel Dia.	917.00	917.00	916.00	916.00	916.50	917.00	917.00	917.00		
	vi.	Wheel Disc No.	07200-6QJ5	01654-6QH0	06156-6QK6	06801-6QH7	00045-6QH5	04715-6QG3	03924-6QH0	06178-6QL4		
	vii.	R.B. Nos.	01368	01374	01933	01650	01335	01494	01981	01645		
	viii.	R.B. Make	TIMKEN			TIMKEN			TIMKEN		TIMKEN	
	ix.	RB Type	UIC CARTRIDGE TAPER ROLLER BEARING									
11.2	Secondary suspension load deflection Values:											
Description		Secondary 1		Secondary 2		Secondary 1		Secondary 2				
		Outer	Inner	Outer	Inner	Outer	Inner	Outer	Inner			
i.	Make & nos.	GBD-16-07-49	RSK-16-04-855	GBD-16-07-34	RSK-16-04-835	GBD-16-07-33	RSK-16-04-802	GBD-16-07-41	RSK-16-04-302			
ii.	Ht. at test load	515	470	516	472	516	470	516	472			
iii.	Align .deviation	7	13	9	13	5	5	6	8			
11.3	Items traceability:											
	Sno.	Item			PP Side Bogie			NPP side Bogie			Make	
	i.	Primary Outer Spring			RSK-15-10			RSK-15-10			RSK	
	ii.	Primary inner Spring			RSK-16-2			RSK-16-2			RSK	
	iii.	Primary Damper			3330,3333,3287,3020			3191,3136,3027,2984			KNORR	
	iv.	Secondary damper			190,27			140,170			GEREP	
	v.	Lateral Damper			0101			0015			SV	
	vi.	Yaw Damper									NIL	
	vii.	Brake cylinder & Caliper			F-16097/600,F16109/600 F16102/600,F16111/600			F16123/600,F16135/600 F16126/600,F16137/600			FTI	
	viii.	Brake Disc									FTI	
	ix.	Ball joint Control arm									MGN	
	x.	Lateral Bump stop									MGN	
	xi.	Traction center make									SARITA	
	xii.	Traction lever make									SARITA	
	xiii.	Ball joint traction lever									SGA	
	xiv.	Traction centre elastic									GMT	
	xv.	Secondary rubber pad									BHAM	
	xvi.	Rubber spring									GMT	
	xvii.	Anti roll bar make									EMSON	
	xviii.	Ball joint roll link									SARITA	
	xix.	Fork make									SARITA	
11.4	i.	Modification / Trial (if any):						NIL				
	ii.	Deviations (if any):						NIL				



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ROLLING STOCK CERTIFICATE

Form No. : QMF 9454; Version: 1

1.	SHELL No.	6039	DISPATCH DATE				06.10.16
2.	Railway	WR	Type	LS3	Coach No.	16406	
3.	Booked to	SSE/C&W/MUMBAI					
4.	Tare Weight of Coach	40.665 T					
5.	Carrying Capacity	Seating	100	Sleeping	NIL	Luggage	NIL
6.	Shell Details: (LW90023 alt 'a', LE90009 alt 'nil', LD9009 alt 'b')						
6.1	Leading Dimensions:						
i)	Maximum length over Body	23700+10/-0 mm					
ii)	Maximum width over Body	3240-8/+0 mm, 3050 mm (LWSCZDAC)					
iii)	Max. Height From Rail Level	4250 (LWACCN), 4039 (LWACCW, LS, LWSCN), 4366 (LWSCZDAC)					
iv)	Buffer/CBC Height	Specified : 1105 +0 /-15 mm		1105	1105		
v)	Buffer/CBC (Make)	FAIVELEY		Fiba Device	NA		
7.	Air Brake Testing:		Description		Specified	Observed	
7.1	Full Brake Application		Reduce pressure of BP from 5.0 to 3.4 kg/cm ²		6 –10 sec	6 Sec	
			Max Pressure in BC		3.00 ± 0.15 Kg/cm ²	3.00	
			All Brake are applied		OK	OK	
7.2	Insensitivity		Exhaust BP @ 0.3 kg/cm ² /min		No brake application	OK	
7.3	Sensitivity		Exhaust BP @ 0.1 kg/cm ² /Sec, After 02 Sec.		Brake must apply	OK	
8.	PAINTING DEATAILS:		TYPE OF PAINT	MAKE	AVERAGE GLOSS VALUE		
8.1	PAINT		PU PAINT	GS	85/87		
8.2	APPLICATION OF PCN-123		SATISFACTORY				
8.3	INSUALTION		SATISFACTORY				
9.	Traceability of Furnishing Items:			Make			
I	BRAKE EQUIPMENT			KBI			
ii	SEAT & BERTH			ARR KAYEE			
lii	BODY SIDE DOORS			JBM			
lv	WATER TANKS			RUBICON,RAIL FAB			
v	FLOOR BOARD			TWPL			
VI	PVC			RESPONSIVE			
	LAVOTARY DOOR			KALSI			
Vii	LP SHEET			--			
10.							
10.1	Modification / Trail (if any):				NIL		
10.2	Deviations if any:				NIL		



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11.	Bogie Details:		Shell No.		Railway		Type		Coach No.		Dispatch Date	
			6039		WR		LGS		16406		14-09-2016	
11.1	Wheel & Axle Details:		PP Side						NPP Side			
	i.	Bogie No.	166808						166809			
	ii.	Frame No.	FM-623						FM-621			
	iii.	Bolster No.	6146-P						6155-GT			
	iv.	Axle No.	N-0926			N-1036			N-0706		N-6066	
	v.	Wheel Dia.	917.00	917.00	916.50	917.00	917.00	917.00	917.00	917.00	917.00	
	vi.	Wheel Disc No.	02016-6QG0	02012-6QG0	06897-6QH7	03206/6QL7	00484-6MG8	00028-6QH5	01108-6QG5	01381-6QJ7		
	vii.	R.B. Nos.	02329	01576	02619	01765	02598	01372	01381	01924		
	viii.	R.B. Make	TIMKEN			TIMKEN			TIMKEN		TIMKEN	
	ix.	RB Type	UIC CARTRIDGE TAPER ROLLER BEARING									
11.2	Secondary suspension load deflection Values:											
Description		Secondary 1		Secondary 2		Secondary 1		Secondary 2				
		Outer	Inner	Outer	Inner	Outer	Inner	Outer	Inner			
i.	Make & nos.	GBD-16-7-42	RSK-16-4-839	GBD-16-7-01	RSK-16-4-680	GBD-16-7-016	RSK-16-4-869	GBD-16-7-38	RSK-16-4-609			
ii.	Ht. at test load	512	472	513	472	516	471	516	472			
iii.	Align .deviation	7	7	8	8	8	6	8	6			
11.3	Items traceability:											
	Sno.	Item			PP Side Bogie			NPP side Bogie			Make	
	i.	Primary Outer Spring			RSK-15-11			RSK-15-11			RSK	
	ii.	Primary inner Spring			RSK-16-2			RSK-16-2			RSK	
	iii.	Primary Damper			3203,2939,3364,3294			2991,3387,3202,2972			KNORR	
	iv.	Secondary damper			17,186			114,120			GEREP	
	v.	Lateral Damper			0437			0491			SV	
	vi.	Yaw Damper									NIL	
	vii.	Brake cylinder & Caliper			4132/691,4095/691 4131/691,4096/691			4126/691,4135/691 4124/691,4133/691			KBI	
	viii.	Brake Disc									FTI	
	ix.	Ball joint Control arm									MGN	
	x.	Lateral Bump stop									MGN	
	xi.	Traction center make									SARITA	
	xii.	Traction lever make									SARITA	
	xiii.	Ball joint traction lever									SGA	
	xiv.	Traction centre elastic									GMT	
	xv.	Secondary rubber pad									TECSPACK	
	xvi.	Rubber spring									GMT	
	xvii.	Anti roll bar make									SARITA	
	xviii.	Ball joint roll link									SARITA	
	xix.	Fork make									SARITA	
11.4	i.	Modification / Trial (if any):						NIL				
	ii.	Deviations (if any):						NIL				

